

BWT 323**1 PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier: BWT 323
Common Name: MIXTURE
SDS Number: 0474
Revision Date: 11/21/2014
Version: 1
Internal ID: 211C
Product Use: WATER TREATMENT
Supplier Details: U. S. Water Services
12270 43rd St. NE
St. Michael, MN 55376

Contact: Non-emergency #: 866-663-7632
Email: SDS@uswaterservices.com
Web: www.uswaterservices.com

EMERGENCY RESPONSE: (ChemTel)
US & Canada: 800-255-3924
International: +01-813-248-0585

2 HAZARDS IDENTIFICATION**Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):**

Health, Acute toxicity, 4 Oral
Health, Acute toxicity, 5 Dermal
Health, Acute toxicity, 5 Inhalation
Health, Skin corrosion/irritation, 1 B

GHS Label elements, including precautionary statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:**GHS Hazard Statements:**

H302 - Harmful if swallowed
H313 - May be harmful in contact with skin
H333 - May be harmful if inhaled
H314 - Causes severe skin burns and eye damage

GHS Precautionary Statements:

P281 - Use personal protective equipment as required.
P302+352 - IF ON SKIN: Wash with soap and water.
P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

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P315 - Get immediate medical advice/attention.

P301 - IF SWALLOWED: Give plenty of water. Get medical attention

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Hazards not otherwise classified (HNOC) or not covered by GHS

- Inhalation:** Large amounts inhaled may cause systemic effects as nitrites are readily absorbed by lung tissue.
- Skin Contact:** Material may cause irritation to the skin on prolonged contact.
- Eye Contact:** Eye contact causes moderate to severe irritation. May cause corneal injury
- Ingestion:** Ingestion of large amounts may cause nausea, vomiting, cyanosis, convulsions and coma.

PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)

3 COMPOSITION/INFORMATION ON INGREDIENTS**Ingredients:**

| Cas# | % | Chemical Name |
|------------|------|--|
| 1310-58-3 | <2% | Potassium hydroxide |
| 1344-09-8 | <5% | Silicic acid, sodium salt |
| 16800-11-6 | <5% | Sodium Metaborate Dihydrate |
| 7632-00-0 | <15% | Sodium nitrite |
| 64665-57-2 | <3% | 1H-Benzotriazole, 4(or 5)-methyl-, sodium salt |

4 FIRST AID MEASURES

- Inhalation:** Remove from contamination. If person has stopped breathing give artificial respiration. Seek medical attention.
- Skin Contact:** Wash off with soap and plenty of water. Remove contaminated garments. Seek medical attention.
- Eye Contact:** Flush eyes with plenty of running water at least 15 minutes. Seek immediate medical attention.
- Ingestion:** Drink several glasses of water. Seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Most important symptoms & effects (acute & delayed): No data available

Indication of need for immediate medical attention: No data available

Special treatment needs: No data available

5 FIRE FIGHTING MEASURES

- Flammability:** Nonflammable
- Flash Point:** None
- Flash Point Method:** Pensky Martens Closed cup
- Burning Rate:** No data available
- Autoignition Temp:** Does not burn,
- LEL:** Not applicable

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UEL: Not applicable

Extinguishing Media:

Suitable: Use extinguishing media suitable for surrounding fire.

Unsuitable: No information available

Hazardous combustion products: Decomposes above 320 degrees C and releases toxic nitrogen oxide gases and oxygen. Burning may produce carbon monoxide, carbon dioxide, or other toxic by products.

Unusual Fire or Explosion Hazards: Product may supply oxygen to stimulate or accelerate the combustion of organic or other combustible material.

Special protective equipment/precautions: Wear self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6**ACCIDENTAL RELEASE MEASURES**

Personal Precautions, Protective equipment, emergency procedures: Avoid contact with the material. See section 8 of SDS for PPE recommendations

Environmental Precautions: Keep runoff from entering drains or waterways

Spill/Leak procedures: Contain spill or leak. Dike area if necessary to prevent spill from spreading or entering sewers and waterways. Recover as much as possible then absorb remainder with inert material. Place into closed container for disposal.

Regulatory Requirements: Dispose of recovered material in accordance with all applicable state and federal regulations.

7**HANDLING AND STORAGE**

Handling Precautions: Avoid contact with eyes, skin, or clothing. Do not taste or swallow. Do not inhale vapor or mist. Use with adequate ventilation. For industrial use only!

Storage Requirements: Store in closed containers away from temperature extremes and incompatible materials, heat, and source of ignition. Store in properly labeled containers in accordance with all local, state and federal guidelines.

8**EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering Controls: Provide local exhaust ventilation as needed to control misting.

Personal Protective Equipment: HMIS PPE, C | Safety Glasses, Gloves, Apron

Respiratory protection: If needed use MSHA/NIOSH approved respirator. Seek professional advice prior to respirator selection and use. Follow all requirements of OSHA respirator regulations (29 CFR 1910.134)

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

General Hygiene: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, using the toilet, or applying cosmetics.

PPE recommendation is advisory only and based on typical use conditions. An

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industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)

Exposure Limits:

OSHA (TWA)/PEL: Not Established

ACGIH (TWA/TLV): Not Established

9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-------------------------------|------------------------|------------------------------|-------------------|
| Appearance: | Light to yellow liquid | Odor: | Pungent |
| Physical State: | Liquid | Solubility: | Complete in water |
| Odor Threshold: | Not determined | Percent Volatile: | Not determined |
| Spec Grav./Density: | 9.41 lb/gal | Freezing/Melting Pt.: | 18°F |
| Viscosity: | Not determined | Flash Point: | None |
| Boiling Point: | No data available | Vapor Density: | Same as water |
| Partition Coefficient: | Not determined | Auto-Ignition Temp: | Not determined |
| Vapor Pressure: | Same as water | UFL/LFL: | Not determined |
| pH: | 12-13 | | |
| Evap. Rate: | Not Determined | | |
| Decomp Temp: | Not determined | | |

10 STABILITY AND REACTIVITY

| | |
|----------------------------------|---|
| Stability: | Product is stable under normal storage and use conditions. |
| Conditions to Avoid: | Keep container closed when not in use. |
| Materials to Avoid: | Strong oxidizing agents, strong alkalis, strong acids, secondary and tertiary amines, cyanide. |
| Hazardous Decomposition: | Decomposes above 320 degrees C and releases toxic nitrogen oxide gases and oxygen. Burning may produce carbon monoxide, carbon dioxide, or other toxic by products. |
| Hazardous Polymerization: | Will not occur. |

11 TOXICOLOGICAL INFORMATION

Acute Toxicity: See section 2 of SDS
Skin Corrosion/Irritation: No data available
Serious eye damage/irritation: No data available
Respiratory or skin sensitization: No data available
Specific target organ toxicity (single exposure): No data available
Specific target organ toxicity (repeated exposure): No data available
Aspiration hazard: No data available
Carcinogenicity: No carcinogenic effects are known for the components of this product
Germ Cell Mutagenicity: No mutagenic effects are known for the components of this product
Teratogenicity: No teratogenic effects are known for the components of this product

BWT 323**12****ECOLOGICAL INFORMATION****Aquatic Toxicity** No data available**Elimination** (persistence & degradability): No data available**Bioaccumulative potential:** No data available**Mobility in soil:** No data available**Other adverse effects:** No data available**13****DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations.

This material should be fully characterized for toxicity and possible reactivity prior to disposal (40 CFR 261). Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

14**TRANSPORT INFORMATION**

UN1760, Corrosive liquids, n.o.s., 8, PG III (Potassium Hydroxide)

DOT Transportation data (49 CFR 172.101)

See section 15 of SDS for information on Reportable Quantity chemicals (RQ)

15**REGULATORY INFORMATION**

Component (CAS#) [%] - CODES

RQ(1000LBS), Potassium hydroxide (1310-58-3) [<2%] CERCLA, CSWHS, MASS, OSHAWAC, PA, TSCA, TXAIR

Silicic acid, sodium salt (1344-09-8) [<5%] TSCA

Sodium Metaborate Dihydrate (16800-11-6) [<5%]

RQ(100LBS), Sodium nitrite (7632-00-0) [<15%] CERCLA, CSWHS, MASS, PA, SARA313, TSCA

1H-Benzotriazole, 4(or 5)-methyl-, sodium salt (64665-57-2) [<3%] TSCA

Regulatory CODE Descriptions

RQ = Reportable Quantity

CERCLA = Superfund clean up substance

CSWHS = Clean Water Act Hazardous Substances

MASS = MA Massachusetts Hazardous Substances List

OSHAWAC = OSHA workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

TSCA = Toxic Substances Control Act

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TXAIR = TX Air Contaminants with Health Effects Screening Level
SARA313 = SARA 313 Title III Toxic Chemicals

EPA / CERCLA / SARA TITLE III: .

Extremely Hazardous Substance (SARA 302/304): This product does not contain any extremely hazardous substances subject to emergency planning requirements.

SARA 312: Acute

California Proposition 65: This product does not contain any chemicals known to the state of California to cause cancer, birth defects, or any other reproductive harm.

RCRA: D002, Corrosivity

TSCA: All components of this product are listed (or are not required to be listed) in the TSCA inventory

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OTHER INFORMATION

HMIS III: Health = 2, Fire = 1, Physical Hazard = 1

HMIS PPE: C - Safety Glasses, Gloves, Apron

| HMIS | | |
|---------------------|---|--|
| HEALTH | 2 | |
| FLAMMABILITY | 1 | |
| PHYSICAL HAZARD | 1 | |
| PERSONAL PROTECTION | C | |

Author: U.S. Water Services

Revision Notes: Updated to GHS format

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